

Recombinant Human COL4A3 Protein, His/GST-tagged

Cat. No. COL4A3-334H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human COL4A3(Leu1428~His1670) fused with His/GST tag at N-terminal was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

Leu1428~His1670

Description

Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter.

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Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	56.79kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others

GENE INFORMATION

Gene Name	COL4A3 collagen, type IV, alpha 3 (Goodpasture antigen) [Homo sapiens]
Official Symbol	COL4A3
Synonyms	COL4A3; collagen, type IV, alpha 3 (Goodpasture antigen); collagen alpha-3(IV) chain; tumstatin; collagen IV, alpha-3 polypeptide;
Gene ID	1285

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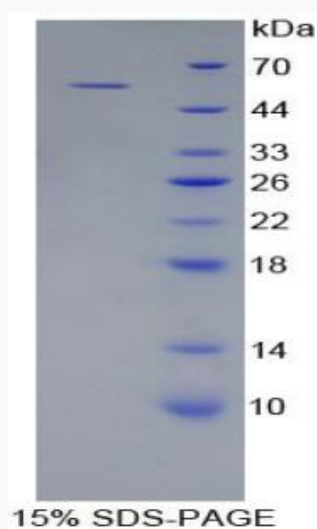
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mRNA Refseq NM_000091

Protein Refseq NP_000082

MIM 120070

UniProt ID Q01955



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